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# Molecular Clock

Behaviorism

tradeoff

“Demis Hassabis of Deepmind potentially a meta-solution to any problem” Deepmind: Reward is Enough

“causation” causation Demis Hassabis any problem

Demis Hassabis any problem

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SAE level 4

Waymo SAE level 4  
Waymo crash data trade secret data

SAE level 4

AlphaGo Zero

Leukotomy Leukotomy selfish gene

logical positivism logical empiricism

Universal Approximation Theorem Nash Embedding Theorems  
word-embedding Vector Space

Deepmind AlphaGo Zero

reward Deepmind Reward is Enough

A Treatise on Probability causation

causation 因果關係

causation 因果關係

causation 因果關係

1. causation 因果關係

2. causation 因果關係

3. causation 因果關係

causation 因果關係

Marc Aurel Stein John Leighton Stuart

causation 因果關係

causation 因果關係

Demis Hassabis

causation 因果關係

Totally Ordered Set

causation 因果關係

causation 因果關係

causation 因果關係

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causation 因果關係



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context

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First, if scientists have tried, and failed, to come up with an alternative theory that explains a phenomenon well, that counts as evidence in favor of the original theory. Second, if a theory keeps seeming like a better idea the more you study it, that's another plus-one. And if a line of thought produced a theory that evidence later supported, chances are it will again.

Historiae  
 Naturalis Philosophiae Naturalis scientia naturalis  
 Philosophiae

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Are there really many worlds in the "Many-worlds interpretation" of Quantum Mechanics?the development of «decoherence theory» revealed that, using the standard formalism of quantum mechanics, macroscopically distinct branches of the wavefunction were almost entirely free from interference and evolve approximately classically almost

# The Many-worlds Interpretation

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SAE level 4  
SAE level 4  
SAE level 5

1. [UTStarcom](#) のクラウド型 VoIP サービス
2. [Google Talk](#) を利用した音声通話サービス
3. [WebEx](#)、[Zoom](#) などによるビデオ会議サービスの提供
4. [Aldebaran Robotics](#) の ARM ベースの Pepper ロボット

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common sense

Historia Naturalis

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Philosophiae Naturalis

Philosophiae  
Naturalis scientia naturalis

Marvin Minsky The Emotion Machine: Commonsense Thinking, Artificial Intelligence, and the Future of the Human Mind emotion machine Turing Test

Minsky

AI: A Modern Approach SAE level 4

Pepper emotion

consciousness

killing